

I/WE CLAIM:

5 1. A waterproof grommet comprising:

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a first member having a first sealing part formed on the inner surface of at least one through-hole through which an electrical wire that connects a contact is passed, and which can adhere tightly to the electrical wire;

10 a second member having a second sealing part which is formed on the outer circumferential surface of the through-hole, and which can adhere tightly to a connector housing; and

the first member having the first sealing part is formed from an elastic material that has a lower hardness than the hardness of the second member having the second sealing part.

2. The waterproof grommet of Claim 1 wherein the second member has an insertion opening with a tapered shape and is disposed at the insertion entry point for the contact in the through-hole.

4 3. The waterproof grommet of Claim 1 wherein the first member and the second member are formed as an integral unit by two-color molding.

3 4. The waterproof grommet of Claim 2 wherein the first member and the second member are formed as an integral unit by two-color molding.

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5. The waterproof grommet of Claim 1 wherein the second member has at least one recessed part which is used to align a contact cavity formed in the connector housing with the through-hole by engaging with at least one

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protruding part formed on a waterproof grommet supporting member; and

the recessed part(s) are formed so that the distances between the recessed part(s) and the outer circumferential surface are substantially the same, and so that the distances between the recessed part(s) and the through-hole(s) are substantially the same.

6. The waterproof grommet of Claim 5 wherein the waterproof grommet supporting member is a waterproof grommet cap that is separate from the connector housing.

13 7. A waterproof grommet comprising:

a first member having a first sealing part formed on the inner surface of at least one through-hole through which an electrical wire that connects a contact is passed, and which can adhere tightly to the electrical wire;

a second member having a second sealing part which is formed on the outer circumferential surface of the through-hole, and which can adhere tightly to a connector housing;

the first member having the first sealing part is formed from an elastic material that has a lower hardness than the hardness of the second member having the second sealing part;

the first member and the second member are formed as an integral unit by two-color molding; /

the second member has at least one recessed part which is used to align a contact cavity formed in the connector housing with the through-hole by engaging with at least one protruding part formed on a waterproof grommet supporting member; and

the recessed part(s) are formed so that the distances between the recessed part(s) and the outer circumferential surface are substantially the same, and so that the distances between the recessed part(s) and the through-

hole(s) are substantially the same.

14¹³. The waterproof grommet of Claim 7 wherein the
5 waterproof grommet supporting member is a waterproof grommet
cap that is separate from the connector housing.

15⁹. A waterproof grommet comprising:

10 a first member having a first sealing part formed on
the inner surface of at least one through-hole through which
an electrical wire that connects a contact is passed, and
which can adhere tightly to the electrical wire;

15 a second member having a second sealing part which is
formed on the outer circumferential surface of the through-
hole, and which can adhere tightly to a connector housing;

20 the first member having the first sealing part formed
from an elastic material that has a lower hardness than the
hardness of the second member having the second sealing
part;

25 the second member having an insertion opening with a
tapered shape and disposed at the insertion entry point for
the contact in the through-hole, and has at least one
recessed part which is used to align a contact cavity formed
in the connector housing with the through-hole by engaging
with at least one protruding part formed on a waterproof
grommet supporting member; and

30 the recessed part(s) are formed so that the distances
between the recessed part(s) and the outer circumferential
surface are substantially the same, and so that the
distances between the recessed part(s) and the through-
hole(s) are substantially the same.

*max 1.3
JPC*

16¹⁵. The waterproof grommet of Claim 8 wherein the first
member and the second member are formed as an integral unit
35 by two-color molding.

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11. The waterproof grommet of Claim ~~9~~ wherein the waterproof grommet supporting member is a waterproof grommet cap that is separate from the connector housing.

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12. The waterproof grommet of Claim ~~10~~ wherein the waterproof grommet supporting member is a waterproof grommet cap that is separate from the connector housing.

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